

ABSTRACT OF THE DISCLOSURE

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Attachment: Abstract

ABSTRACT

The present invention provides a method for the preparation of nanoparticle conjugates comprising: protocols for synthesizing intermediate product molecules by introducing known numbers of two or more substituents into a flexible hydrophilic polymer, where one substituent is capable, optionally after deprotection, of binding to a nanoparticle, and where the other substituents are capable of participating in analytical or other applications; protocols for contacting the intermediate product molecules with nanoparticles for a period of time and under conditions effective to allow the binding of a known number of the intermediate product molecules to each nanoparticle to provide the nanoparticle conjugate.